



PATENT ABSTRACTS OF JAPAN

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(54) ELECTROPHORETIC DISPLAY DEVICE

(57) Abstract:

PURPOSE: To enable the display of intermediate gradations by providing intermediate electrodes for providing the intermediate gradations near the electrode on a display side.

CONSTITUTION: This electrophoretic display device 100 is divided by substrates 13, 13', spacers 15, 15', and partition plate 17 to respective segments. A dispersion system 10 is formed in the respective segments by internally pressurizing electrophoretic particles 12 and dispersing the electrophoretic particles 12 into a dispersion medium 11. Electrodes 14, 14' are provided on both sides of the dispersion system 10 and further, the intermediate electrodes 16 are provided between the electrodes 14 and 14' and near the electrode 14 on the display side. The distinct display is obtd. if the electrophoretic particles 12 are attracted to the electrode 14 by impressing a voltage between

the electrodes 14 and 14'. The light display is made when the electrophoretic particles 12 are attracted to the electrodes 16 by impressing the voltage to said electrodes. The display of the intermediate gradations is executed by combining these segments.

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